

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE**

LOK SABHA

UNSTARRED QUESTION NO. 2546

TO BE ANSWERED ON WEDNESDAY, AUGUST 07, 2024

INDIANISATION OF TECHNIQUE IN SPACE SECTOR

2546. SHRI P C MOHAN:

SHRI BIDYUT BARAN MAHATO:

SHRI MUKESH RAJPUT:

Will the PRIME MINISTER be pleased to state:

- (a) the details regarding Indianisation of techniques and tools utilised in the space sector;**
- (b) the revenue generated since 2014 by launching foreign satellites; and**
- (c) the roadmap ahead for the space exploration programme?**

ANSWER

**MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PUBLIC
GRIEVANCES & PENSIONS AND IN THE PRIME MINISTER'S OFFICE**

(DR. JITENDRA SINGH):

- (a) The department is taking proactive measures in indigenization of space systems and associated technologies. Space sector indigenization involves strategic initiatives such as developing indigenous satellite platforms like IRS & INSAT, and launch vehicles like PSLV, GSLV, LVM3 (GSLV Mk3) & SSLV with**

locally produced components, including the complex cryogenic engine. The process includes in-house Research & Development, maximal usage of indigenous items and rigorous qualification to ensure reliability. Additionally, skill development, infrastructure upgrades, increased industry participation etc. are regularly followed for creating self-reliant and cost-effective space technologies.

As such, the indigenous content typically in Polar Satellite Launch Vehicle (PSLV) has been enhanced from about 70% to 90% in the operational phase. Satellites, being the electronics intensive item, indigenous content is about 70%. Continuous efforts are still being taken to further reduce the import content and to develop and qualify indigenous elements like electronics, special alloys, composites etc.

(b) Starting from January 2014 till July 2024, a total of 397 Foreign Satellites have been successfully launched on commercial basis. Through launching of these foreign satellites, country has earned a total Foreign Exchange revenue of approximately 157 Million USD and 261 Million Euros.

(c) As announced by the Hon'ble Prime Minister, establishing Bhartiya Antariksh Station (BAS) by 2035 and Indian Moon landing by 2040 are identified as part of future roadmap for space exploration programme. Missions towards global characterization of thermospheric-ionospheric response to space weather, study of Venus systems, landing on Martian surface, atmospheric characterization of exoplanets etc. are also under studies in this regard.
